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1 [Watermarking: Watermarking schemes provably secure against copy and ambiguity attacks](#)



André Adelsbach, Stefan Katzenbeisser, Helmut Veith

 October 2003 **Proceedings of the 2003 ACM workshop on Digital rights management**

 Full text available: [pdf\(224.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Protocol attacks against watermarking schemes pose a threat to modern digital rights management systems; for example, a successful attack may allow to copy a watermark between two digital objects or to forge a valid watermark. Such attacks enable a traitor to hinder a dispute resolving process or accuse an innocent party of a copyright infringement. Secure DRM systems based on watermarks must therefore prevent such protocol attacks. In this paper we introduce a formal framework that enables us t ...

Keywords: multimedia security, protocol attacks, watermarking

2 [A functional taxonomy for software watermarking](#)



Jasvir Nagra, Clark Thomborson, Christian Collberg

 January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 CRPITS '02**, Volume 24 Issue 1

 Full text available: [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Despite the recent surge of interest in digital watermarking technology from the research community, we lack a comprehensive and precise terminology for software watermarking. In this paper, we attempt to fill that gap by giving distinctive names for the various protective functions served by software watermarks: Validation Mark, Licensing Mark, Authorship Mark and Fingerprinting Mark. We identify the desirable properties and specific vulnerabilities of each type of watermark, and we illustrate ...

Keywords: authentication, fingerprint, software authorship, software licensing, steganography, watermark

3 [Audio: An SVD-based audio watermarking technique](#)



Hamza Özer, Bülent Sankur, Nasir Memon

 August 2005 **Proceedings of the 7th workshop on Multimedia and security MM&Sec '05**

 Full text available: [pdf\(283.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a non-oblivious, extremely robust watermarking scheme for audio signals. The watermarking algorithm is based on the SVD of the spectrogram of the signal. The SVD of the spectrogram is modified adaptively according to the information to be watermarked. The

algorithm is tested for inaudibility performance with audio quality measures and robustness tests with audio Stirmark benchmark tool, which have a variety of common signal processing distortions. The comparison with a DCT based non-o ...

Keywords: singular value decomposition, watermarking

4 [Digital watermarking makes its mark](#)

Hal Berghel

September 1998 **netWorker**, Volume 2 Issue 4

Full text available:  [pdf\(617.64 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



5 [Web and IP based design: Watermarking integer linear programming solutions](#)

Seapahn Megerian, Milenko Drinic, Miodrag Potkonjak

June 2002 **Proceedings of the 39th conference on Design automation**

Full text available:  [pdf\(217.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Linear programming (LP) in its many forms has proven to be an indispensable tool for expressing and solving optimization problems in numerous domains. We propose the first set of generic watermarking techniques for integer-LP (ILP). The proof of authorship by watermarking is achieved by introducing additional constraints to limit the solution space and can be used as effective means of intellectual property protection (IPP) and authentication. We classify and analyze the types of constraints in ...

Keywords: digital watermarking, intellectual property protection

6 [Robust MPEG video watermarking technologies](#)

Jana Dittmann, Mark Stabenau, Ralf Steinmetz

September 1998 **Proceedings of the sixth ACM international conference on Multimedia**

Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: copyright protection, digital watermarking for MPEG video, security and the media

7 [Software watermarking: models and dynamic embeddings](#)

Christian Collberg, Clark Thomborson

January 1999 **Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available:  [pdf\(2.19 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



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L2	4008	watermark\$4.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:37
L3	461	2 and (communicat\$4 access\$4 connect\$4) same (network\$4 internet) not rhoads.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:53
L4	288	2 and watermark\$4 same (communicat\$4 access\$4 connect\$4) same (network\$4 internet) not rhoads.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:38
L5	236	4 and watermark\$4 same (initiat\$4 enabl\$4 trigger\$4 action interact\$4 communicat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:53
L6	202	5 and (insert\$4 afix\$4 label\$3 embed\$5 stick\$4 encod\$4) same (image material physical object)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:41
L7	82	6 and database and (register\$4 stor\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:42
L8	32	(6 7) and watermark\$4 same (object label sticker) with (id identifier)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:43
L9	4602	715/768,744,765;380/202,255,382/100,232.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:51
L10	554	9 and watermark\$4 with (material physical\$4 object document) not rhoads.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:52
L11	333	10 and watermark\$4 same (initiat\$4 enabl\$4 trigger\$4 action interact\$4 communicat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:53

L12	47	11 and watermark\$4 with (browser application object document) same (communicat\$4 access\$4 connect\$4) same (network\$4 internet) not rhoads.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:55
L13	4	12 and watermark\$4 with enabled with (browser application object document)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 11:56
L14	39	watermark\$4 with enabled with (browser application object document)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 12:02
L15	30	watermark\$4 with enabled with (browser application object document).not digimarc.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 12:02
L16	20	watermark\$4 with enabled with (browser application object document) not (rhoads.in. digimarc.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 12:03
L17	0	16 and (sticker and prop and facet)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/18 12:04

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L2	0	1 and watermark with (id identifier) same embed\$4 same (object document)	US-PGPUB	OR	ON	2005/08/18 19:02
L3	1	((initiat\$4 launch\$4 trigger\$4 start\$4) same (machine computer devie equipment) same (action processing) and (decod\$4 read\$4) with watermark\$4).clm	US-PGPUB	OR	ON	2005/08/18 19:04